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FF 6

SEQUENCE LISTING

<110> Barclay, Jane
Buxton, Francis Paul
Ganju, Pamposh
Natt, Francois Jean-Charles
Song, Chuanzheng
Weiler, Jan
Wishart, William Leonard

<120> Use of MOB-5 in Pain

<130> PN/4-32436A

<140> 10/509,954

<141> 2004-10-04

<150> PCT/EP03/03469

<151> 2003-04-02

<150> 60/369,893

<151> 2002-04-03

<160> 20

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer Sequences for Rat MOB-5 gene

<400> 1

atgcagacaa gcttgagaca acagattct

29

<210> 2

<211> 27

<212> DNA

<213> Artificial Sequence

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<223> Primer Sequences for Rat MOB-5 gene

<400> 2

tcagagctgg tagaaattct gcatcca

27

<210> 3

<211> 393

<212> DNA

<213> Rattus

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 <221> prim_transcript
 <222> (28)...(48)
 <223> Gene Specific Primer Sequence designed from Rat
 MOB-5 gene

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 <222> (175)...(198)
 <223> Gene Specific Primer Sequence designed from Rat
 MOB-5 gene

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 catatccctg ttgtctctcag ggcacttcag acccttggcc atggaccct gtcgttggct 120
 caggcttttc ttcagacctc actctttagt ccaaacgaca gccatggaca gcacctttgg 180
 atgctccgac tgaccacaaa cgtggatttg catatttatt acagccctat ttaactaatg 240
 tcactgtttc ggtagaaaacc ggtatttatt tgtgagactg gacgttccat gaaagcatca 300
 tgcccgtgt ttgcacctta ctctctgtga gctggctcac catgggggca gtagatgggt 360
 gctcagtaaa tatttaaaat ggaaaaaaaa aaa 393

<210> 4
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> RT-PCR Primer region for rat MOB-5 gene

<400> 4
 cctttgttct ccgtgccatt t 21

<210> 5
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> RT-PCR Primer region for rat MOB-5 geneMOB-5 gene

<400> 5
 ctttggatgc tccgactgac cca 23

<210> 6
 <211> 183
 <212> PRT
 <213> Rattus

<220>
 <221> PEPTIDE
 <222> (1)...(183)
 <223> Amino Acid sequence corresponding to the Open
 Reading Frame region deduced from MOB-5 cDNAs
 Cloned from Rattus Dorsal Root Ganglia

<400> 6
Met Gln Thr Ser Leu Arg Gln Gln Ile Leu Pro Gly Leu Ser Leu Ile
1 5 10 15
Leu Leu Val Leu Ser Gln Val Pro Glu Leu Gln Gly Gln Glu Phe Arg
20 25 30
Phe Gly Pro Cys Gln Val Thr Gly Val Val Leu Pro Glu Leu Trp Glu
35 40 45
Ala Phe Trp Thr Val Lys Asn Thr Val Lys Thr Gln Asp Glu Leu Thr
50 55 60
Ser Val Arg Leu Leu Lys Pro Gln Val Leu Gln Asn Val Ser Asp Ala
65 70 75 80
Glu Ser Cys Tyr Leu Ala His Ser Leu Leu Lys Phe Tyr Leu Asn Thr
85 90 95
Val Phe Lys Asn Tyr His Ser Glu Ile Val Lys Phe Lys Val Leu Lys
100 105 110
Ser Phe Ser Thr Leu Ala Asn Asn Phe Leu Val Ile Met Ser Lys Leu
115 120 125
Gln Pro Ser Lys Asp Asn Ala Met Leu Pro Ile Ser Asp Ser Ala Arg
130 135 140
Arg Arg Phe Leu Leu Phe His Arg Thr Phe Lys Gln Leu Asp Ile Glu
145 150 155 160
Val Ala Leu Ala Lys Ala Phe Gly Glu Val Asp Ile Leu Leu Ala Trp
165 170 175
Met Gln Asn Phe Tyr Gln Leu
180

<210> 7
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<221> modified_base
<222> 1-5, 14-18
<223> modified with 2'-O-(2-methoxyethyl)

<221> modified_base
<222> 6-13
<223> modified with a phosphorothioate group

<221> modified_base
<222> 2,5,16
<223> m5c

<400> 7
tcagcaggct gtgggcaa

18

<210> 8
<211> 18
<212> DNA
<213> Artificial Sequence

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 <221> modified_base
 <222> 1-5, 14-18
 <223> modified with 2'-O-(2-methoxyethyl) group

 <221> modified_base
 <222> 6-13
 <223> modified with phosphorothioate group

 <221> modified_base
 <222> 2-3, 16
 <223> m5c

 <400> 8
 tccgaaggcg gtgtgcaa 18

 <210> 9
 <211> 18
 <212> DNA
 <213> Artificial Sequence

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 <223> Antisense oligonucleotide

 <221> modified_base
 <222> 1-5, 14-18
 <223> modified with 2'-O-(2-methoxyethyl) group

 <221> modified_base
 <222> 2,5, 16
 <223> m5c

 <400> 9
 tcagcaggct gtgggcaa 18

 <210> 10
 <211> 18
 <212> DNA
 <213> Artificial Sequence

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 <221> modified_base
 <222> 1-5, 14-18
 <223> modified with 2'-O-(2-methoxyethyl) group

 <221> modified_base
 <222> 2,3, 16
 <223> m5c

 <400> 10
 tccgaaggcg gtgtgcaa 18

<210> 11
<211> 549
<212> DNA
<213> Rattus

<220>
<221> gene
<222> (1)...(549)
<223> Rat MOB-5 cDNA

<400> 11
atgcagacaa gcttgagaca acagattctc cccggcctga gcctaatacct tctcggttttg 60
agccaagtac cagagcttca ggggtcaagag ttccgatttg ggccttgcca agtgaccggg 120
gtggttctcc cagaactgtg ggaggccttc tggactgtga agaacactgt gaaaactcag 180
gacgagctca caagtgtccg gctggtgaaa ccacagggtc tgcagaatgt ctccggatgcc 240
gagagctggt accttgccca cagcctgctg aagttctact tgaacactgt tttcaaaaac 300
tatcacagcg aaatagtcaa attcaaggct ttgaagtcac tctccactct ggccaacaac 360
tttttagtca tcatgtccaa actgcagcct agtaaggaca atgccatgct tcccattagt 420
gacagtgcac gccggcggtt tttgctgttc cacagaacat tcaaacagtt ggacatagaa 480
gtggcctttg cgaaagcctt tggggaagtg gacattctcc tggcctggat gcagaatttc 540
taccagctc 549

<210> 12
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligoribonucleotides sequence to rat
MOB-5 gene

<221> modified_base
<222> 1-18
<223> ribonucleoside
internucleotide linkage

<221> modified_base
<222> 19-21
<223> deoxyribonucleoside internucleotide linkage

<400> 12
uucagcaggc ugugggcaag g 21

<210> 13
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Sense Oligoribonucleotides sequence to rat MOB-5
gene

<221> modified_base
<222> 1-18

<223> ribonucleoside
internucleotide linkage

<221> modified_base

<222> 19-21

<223> deoxyribobnucleoside internucleotide linkage

<400> 13

uugcccacag ccugcugaat t

21

<210> 14

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Mismatch Antisense Oligoribonucleotides to rat
MOB-5 gene

<221> modified_base

<222> 1-18

<223> ribonucleoside
internucleotide linkages

<221> modified_base

<222> 19-21

<223> deoxyribose internucleotide linkages

<400> 14

uuccgaaggc ggugugcaag g

21

<210> 15

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Mismatch Sense oligoribonucleotides to rat MOB-5
gene

<221> modified_base

<222> 1-18

<223> ribonucleoside
internucleotide linkages

<221> modified_base

<222> 19-21

<223> deoxyribose internucleotide linkages

<400> 15

uugcacaccg ccuucggaat t

21

<210> 16

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligoribonucleotides directed against
rat MOB-5 gene

<221> modified_base

<222> 1-5, 14-18

<223> modified with 2'-O-(methoxyethyl) ribonucleoside
internucleotide linkage

<221> modified_base

<222> 5-13

<223> deoxyribose internucleotide linkage

<400> 16

tcagcaggct gtgggcaa

18

<210> 17

<211> 18

<212> DNA

<213> Artificial Sequence

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<223> Antisense Oligoribonucleotides directed against
rat MOB-5 gene

<221> modified_base

<222> 1-5, 14-18

<223> modified with 2'-O-(methoxyethyl) ribonucleoside
internucleotide linkage

<221> modified_base

<222> 6-14

<223> modified with phosphorothioate internucleotide
linkage

<400> 17

acagctctcg gcatccga

18

<210> 18

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligoribonucleotides directed against
rat MOB-5 gene

<221> modified_base

<222> 1-5, 14-18

<223> modified with 2'-O-(methoxyethyl) internucleotide
linkage

<221> modified_base

<222> 6-14
 <223> modified with phosphorothioate internucleotide
 linkage

<400> 18
 tcagcaggct gtgggcaa

<210> 19
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 rat MOB-5 gene

<221> modified_base
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 <223> modified with 2'-O-(methoxyethyl) internucleotide
 linkage

<221> modified_base
 <222> 6-14
 <223> modified with phosphorothioate internucleotide
 linkage

<400> 19
 tccgaaggcg gtgtgcaa

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 <223> Antisense Oligoribonucleotides directed against
 rat MOB-5 gene

<221> modified_base
 <222> 1-18
 <223> modified with phosphorothioate internucleotide
 linkage

<221> modified_base
 <222> 10-18
 <223> modified with 2'-O-(methoxyethyl) internucleotide
 linkage

<400> 20
 ggccatccac agtcttct

18

18

18